

10/11/2007 15:38 FAX

001/005

In The United States Patent and Trademark Office

In re application of:
LIU, Yu *et al.*

Appl. No. 10/607,584

Filed: June 27, 2003

For: **Improved Methods and
Compositions for Capillary
Electrophoresis (CE)**

Confirmation No. 5810

Examiner: Vathyam, Surekha

Art Unit: 1753

Atty. Docket: 0219.0017C

Via Facsimile
571-273-6500

Five (5) Total Pages, including 2
pages of submission and 3 pages of
supporting evidence

Office of Finance
Deposit Account Branch, Maintenance Fee Branch and Refund Branch
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Request for Refund of Overpayment

Dear Sir/Madam:

In the course of submitting an amendment for the above-identified patent application on October 11, 2007, an overpayment of USPTO fees was inadvertently made. Accordingly, Applicants request a refund of the overpayment. The facts relating to this matter are as follows:

1. The above-described patent application was filed on June 27, 2003 without Declaration or fee. On October 20, 2003, Applicants provided a timely response to a Notice to File Missing Parts of Application (dated September 22, 2003). The Response included payment of \$288 in excess claim fees. A copy of the October 20, 2003, Fee Transmittal sheet is enclosed.

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In Re Patent Appn. of Yu Liu *et al.*
Serial No. 10/607,584

Request for Refund
Page 2

2. The October 20, 2003, Fee Transmittal sheet correctly indicates that the Application presented 2 Independent claims and 36 Total claims.
3. The Amendment submitted on October 11, 2007, presented 3 Independent claims and 48 Total claims.
4. Accordingly, the Amendment submitted on October 11, 2007, presented 12 excess non-independent claims, for which a large entity fee of 12 x \$50 = \$600 was due.
5. As indicated on the e-filing receipt dated October 11, 2007, \$1400 was paid.
6. Accordingly a refund of \$800 is requested. Please credit this refund to the credit card account used to make the e-payment.
7. Should any additional information be desired, please contact the undersigned.
8. The inconvenience to the Office is greatly regretted.

Date: October 11, 2007
Edell, Shapiro & Finnan, LLC
1901 Research Boulevard, Suite 400
Rockville, MD 20850
Telephone: (301) 424-3640
Facsimile: (301) 762-4056

Customer No. 52287

Respectfully Submitted,

/Jeffrey I. Auerbach/
Jeffrey I. Auerbach
Registration No. 32,680
Attorney for Assignee

10/11/2007 15:36 FAX

003/005

Electronic Acknowledgement Receipt	
EF8 ID:	2307717
Application Number:	10607584
International Application Number:	
Confirmation Number:	5810
Title of Invention:	Methods and compositions for capillary electrophoresis (CE)
First Named Inventor/Applicant Name:	Yu Liu
Customer Number:	58868
Filer:	Jeffrey Ira Auerbach
Filer Authorized By:	
Attorney Docket Number:	03501.141
Receipt Date:	11-OCT-2007
Filing Date:	27-JUN-2003
Time Stamp:	14:46:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$ 1400
RAM confirmation Number	76
Deposit Account	

Adjustment date: 10/26/2007 MGE BREH1
 10/12/2007 INT FFSM 00000006 10607584
 01 FC:1202
 10/26/2007 MGE BREH1 00000006 11607584 -1400.00 OP
 01 FC:1202 600.00 OP

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /zip	Pages (If appl.)
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004/005

1		Reply3.pdf	196554 ch139720825220015043327013000 43e0ee	yes	19
Multipart Description/PDF files in .zip description					
		Document Description	Start	End	
		Amendment - After Non-Final Rejection	1	1	
		Claims	2	6	
		Applicant Arguments/Remarks Made in an Amendment	9	19	
Warnings:					
Information:					
2		Fee Worksheet (PTO-06)	fee-info.pdf 8142 70c78d4c6587e663482b74099e0e8 21422970e	no	2
Warnings:					
Information:					
Total Files Size (In bytes):			204696		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p>New Applications Under 35 U.S.C. 111 If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p>National Stage of an International Application under 35 U.S.C. 371 If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p>New International Application Filed with the USPTO as a Receiving Office If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

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005/005

OCT 20 2003



Fee Transmittal for FY 2003

Application No: 10/607,5
 Filing Date: 27 June 2002
 First Named Inventor: Liu, Yu et al.
 Examiner Name: To be Assigned.
 Group Art Unit: To be Assigned.
 Attorney Docket No. 03501.141

Total Amount of Payment \$ 1,228.00

Method of Payment		Fee Calculation (continued)																																																																																																																																																		
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge to Deposit Account No. 50-0548 [Account Name: Liniak, Berenato, Longacre & White, LLC]: <input type="checkbox"/> all indicated fees; <input checked="" type="checkbox"/> any additional fee required under 37 CFR 1.16 and 1.17; <input type="checkbox"/> Applicant claims SMALL ENTITY Status <input checked="" type="checkbox"/> Applicant is a LARGE ENTITY for this Application		Additional Fees <table border="1"> <thead> <tr> <th>Fee Code</th> <th>Large Entity Fee</th> <th>Small Entity Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>103</td> <td>130</td> <td>205</td> <td>63</td> <td>Surcharge late filing fee or oath</td> </tr> <tr> <td>127</td> <td>50</td> <td>227</td> <td>23</td> <td>Surcharge late prov. filing fee</td> </tr> <tr> <td>139</td> <td>130</td> <td>139</td> <td>130</td> <td>Non-English Specification</td> </tr> <tr> <td>147</td> <td>2,520</td> <td>147</td> <td>2,520</td> <td>Request for Reexamination</td> </tr> <tr> <td>112</td> <td>920</td> <td>112</td> <td>920</td> <td>Publ. of SIR prior to Exam. action</td> </tr> <tr> <td>113</td> <td>1,840</td> <td>113</td> <td>1,840</td> <td>Publication of SIR after to Exam. action</td> </tr> <tr> <td>115</td> <td>110</td> <td>215</td> <td>55</td> <td>Extension for Reply 1 Month</td> </tr> <tr> <td>116</td> <td>400</td> <td>216</td> <td>200</td> <td>Extension for Reply 2 Months</td> </tr> <tr> <td>117</td> <td>920</td> <td>217</td> <td>460</td> <td>Extension for Reply 3 Months</td> </tr> <tr> <td>118</td> <td>1,440</td> <td>218</td> <td>720</td> <td>Extension for Reply 4 Months</td> </tr> <tr> <td>128</td> <td>1,960</td> <td>228</td> <td>980</td> <td>Extension for Reply 5 Months</td> </tr> <tr> <td>119</td> <td>320</td> <td>219</td> <td>160</td> <td>Notice of Appeal</td> </tr> <tr> <td>120</td> <td>310</td> <td>220</td> <td>155</td> <td>Filing a Brief in support of, or in opposition to, a motion</td> </tr> <tr> <td>121</td> <td>270</td> <td>221</td> <td>135</td> <td>Request for oral hearing</td> </tr> <tr> <td>138</td> <td>1,510</td> <td>138</td> <td>1,510</td> <td>Initiate Public Use Prosecution</td> </tr> <tr> <td>140</td> <td>110</td> <td>240</td> <td>55</td> <td>Petition to Revoke Unavoidable</td> </tr> <tr> <td>141</td> <td>1,280</td> <td>241</td> <td>640</td> <td>Petition to Revoke Uninstructional</td> </tr> <tr> <td>142</td> <td>1,240</td> <td>242</td> <td>620</td> <td>Utility Issue Fee</td> </tr> <tr> <td>143</td> <td>440</td> <td>243</td> <td>220</td> <td>Design Issue Fee</td> </tr> <tr> <td>144</td> <td>600</td> <td>244</td> <td>300</td> <td>Plant Issue Fee</td> </tr> <tr> <td>122</td> <td>130</td> <td>122</td> <td>130</td> <td>Petition to the Commissioner Processing Fee (37 CFR 1.17(d))</td> </tr> <tr> <td>123</td> <td>50</td> <td>123</td> <td>50</td> <td>Submission of IDS</td> </tr> <tr> <td>124</td> <td>180</td> <td>124</td> <td>180</td> <td>Assignment Recordation</td> </tr> <tr> <td>581</td> <td>40</td> <td>581</td> <td>40</td> <td>1.129(a) Submission</td> </tr> <tr> <td>146</td> <td>710</td> <td>246</td> <td>355</td> <td>Add'l inventions to be examined</td> </tr> <tr> <td>149</td> <td>710</td> <td>249</td> <td>355</td> <td>Notice Of Appeal</td> </tr> <tr> <td>1401</td> <td>320</td> <td>2401</td> <td>160</td> <td>Expedited Exam. Design appl.</td> </tr> <tr> <td>169</td> <td>900</td> <td>169</td> <td>900</td> <td></td> </tr> </tbody> </table>		Fee Code	Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	103	130	205	63	Surcharge late filing fee or oath	127	50	227	23	Surcharge late prov. filing fee	139	130	139	130	Non-English Specification	147	2,520	147	2,520	Request for Reexamination	112	920	112	920	Publ. of SIR prior to Exam. action	113	1,840	113	1,840	Publication of SIR after to Exam. action	115	110	215	55	Extension for Reply 1 Month	116	400	216	200	Extension for Reply 2 Months	117	920	217	460	Extension for Reply 3 Months	118	1,440	218	720	Extension for Reply 4 Months	128	1,960	228	980	Extension for Reply 5 Months	119	320	219	160	Notice of Appeal	120	310	220	155	Filing a Brief in support of, or in opposition to, a motion	121	270	221	135	Request for oral hearing	138	1,510	138	1,510	Initiate Public Use Prosecution	140	110	240	55	Petition to Revoke Unavoidable	141	1,280	241	640	Petition to Revoke Uninstructional	142	1,240	242	620	Utility Issue Fee	143	440	243	220	Design Issue Fee	144	600	244	300	Plant Issue Fee	122	130	122	130	Petition to the Commissioner Processing Fee (37 CFR 1.17(d))	123	50	123	50	Submission of IDS	124	180	124	180	Assignment Recordation	581	40	581	40	1.129(a) Submission	146	710	246	355	Add'l inventions to be examined	149	710	249	355	Notice Of Appeal	1401	320	2401	160	Expedited Exam. Design appl.	169	900	169	900	
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Fee Calculation 1. Basic Filing Fee <table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee</th> <th>Small Fee Code</th> <th>Entity Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>770</td> <td>201</td> <td>375</td> <td>Utility Filing Fee</td> <td>\$ 770</td> </tr> <tr> <td>106</td> <td>320</td> <td>206</td> <td>160</td> <td>Design Filing Fee</td> <td></td> </tr> <tr> <td>107</td> <td>490</td> <td>207</td> <td>245</td> <td>Plant Filing Fee</td> <td></td> </tr> <tr> <td>108</td> <td>710</td> <td>208</td> <td>355</td> <td>Reissue Filing Fee</td> <td></td> </tr> <tr> <td>114</td> <td>150</td> <td>214</td> <td>75</td> <td>Provisional Filing Fee</td> <td></td> </tr> <tr> <td colspan="5">SUBTOTAL (1)</td> <td>\$ 770</td> </tr> </tbody> </table>				Large Fee Code	Entity Fee	Small Fee Code	Entity Fee	Fee Description	Fee Paid	101	770	201	375	Utility Filing Fee	\$ 770	106	320	206	160	Design Filing Fee		107	490	207	245	Plant Filing Fee		108	710	208	355	Reissue Filing Fee		114	150	214	75	Provisional Filing Fee		SUBTOTAL (1)					\$ 770																																																																																																							
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Submitted By: Jeffrey I. Auerbach		Reg. No. 32,680																																																																																																																																																		
Signature:		Telephone: (301) 896-0600																																																																																																																																																		
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Total Amount of Payment \$ 1,228.00

Method of Payment		Fee Calculation (continued)																																																																																																																																																		
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge to Deposit Account No. <u>50-0548</u> [Account Name: <u>Liniak, Berenato, Longacre & White, LLC</u>]: <input type="checkbox"/> all indicated fees; <input checked="" type="checkbox"/> any additional fee required under 37 CFR 1.16 and 1.17; <input type="checkbox"/> Applicant claims SMALL ENTITY Status <input checked="" type="checkbox"/> Applicant is a LARGE ENTITY for this Application		Additional Fees <table border="1"> <thead> <tr> <th>Fee Code</th> <th>Large Entity Fee</th> <th>Small Entity Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>63</td><td>Surcharge late filing fee or oath</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>23</td><td>Surcharge late prov. filing fee</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English Specification</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>Request for Reexamination</td></tr> <tr><td>112</td><td>920</td><td>112</td><td>920</td><td>Publ. of SR prior to Exam. action</td></tr> <tr><td>113</td><td>1,840</td><td>113</td><td>1,840</td><td>Publication of SR after to Exam. action</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for Reply 1 Month</td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for Reply 2 Months</td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for Reply 3 Months</td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for Reply 4 Months</td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for Reply 5 Months</td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a Brief in support of...</td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Initiate Public Use Prosecution</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>35</td><td>Petition to Revoke Unavoidable</td></tr> <tr><td>141</td><td>1,280</td><td>241</td><td>640</td><td>Petition to Revoke Uninstructional</td></tr> <tr><td>142</td><td>1,240</td><td>242</td><td>620</td><td>Utility Issue Fee</td></tr> <tr><td>143</td><td>440</td><td>243</td><td>220</td><td>Design Issue Fee</td></tr> <tr><td>144</td><td>600</td><td>244</td><td>300</td><td>Plant Issue Fee</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Processing Fee (37 CFR 1.17(c))</td></tr> <tr><td>124</td><td>180</td><td>124</td><td>180</td><td>Submission of IDS</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Assignment Recordation</td></tr> <tr><td>145</td><td>710</td><td>245</td><td>355</td><td>1.139(a) Submission</td></tr> <tr><td>149</td><td>710</td><td>249</td><td>355</td><td>Add'l inventions to be examined</td></tr> <tr><td>1401</td><td>320</td><td>2401</td><td>160</td><td>Notice Of Appeal</td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Expedited Exam. Design appl.</td></tr> </tbody> </table>		Fee Code	Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	105	130	205	63	Surcharge late filing fee or oath	127	50	227	23	Surcharge late prov. filing fee	139	130	139	130	Non-English Specification	147	2,520	147	2,520	Request for Reexamination	112	920	112	920	Publ. of SR prior to Exam. action	113	1,840	113	1,840	Publication of SR after to Exam. action	115	110	215	55	Extension for Reply 1 Month	116	400	216	200	Extension for Reply 2 Months	117	920	217	460	Extension for Reply 3 Months	118	1,440	218	720	Extension for Reply 4 Months	128	1,960	228	980	Extension for Reply 5 Months	119	320	219	160	Notice of Appeal	120	310	220	155	Filing a Brief in support of...	121	270	221	135	Request for oral hearing	138	1,510	138	1,510	Initiate Public Use Prosecution	140	110	240	35	Petition to Revoke Unavoidable	141	1,280	241	640	Petition to Revoke Uninstructional	142	1,240	242	620	Utility Issue Fee	143	440	243	220	Design Issue Fee	144	600	244	300	Plant Issue Fee	122	130	122	130	Petitions to the Commissioner	123	50	123	50	Processing Fee (37 CFR 1.17(c))	124	180	124	180	Submission of IDS	581	40	581	40	Assignment Recordation	145	710	245	355	1.139(a) Submission	149	710	249	355	Add'l inventions to be examined	1401	320	2401	160	Notice Of Appeal	169	900	169	900	Expedited Exam. Design appl.
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Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-2. **[Canceled]**

Claim 3. **[Currently Amended]** The aqueous gel medium of ~~claim 1~~ claim 37,
wherein said one or more reagent(s) include a reducing reagent.

Claim 4. **[Original]** The aqueous gel medium of claim 3, wherein said reducing reagent is selected from the group consisting of 2-mercaptoethanol, dithiothreitol (DTT), dithioerythreitol (DTE), and tris(2-carboxyethyl)phosphine.

Claim 5. **[Original]** The aqueous gel medium of claim 4, wherein said reducing reagent is dithiothreitol (DTT).

Claim 6. **[Currently Amended]** The aqueous gel medium of ~~claim 1~~ claim 37, wherein said one or more reagent(s) include a metal ion chelator.

Claim 7. **[Currently Amended]** The aqueous gel medium of claim 6, wherein said ~~reducing reagent~~ metal ion chelator is ethylenediaminetetraacetic acid (EDTA).

Claim 8. **[Currently Amended]** The aqueous gel medium of ~~claim 1~~ claim 37, wherein said ~~non-crosslinked~~ hydrophilic polymer is selected from the group consisting of: dextran, polyacrylamide, cellulose derivatives and polyethylene oxide.

- Claim 9. **[Currently Amended]** The aqueous gel medium of claim 8, wherein said ~~non-crosslinked~~ hydrophilic polymer is dextran.
- Claim 10. **[Currently Amended]** The aqueous gel medium of claim 9, wherein said dextran has a molecular weight of 2,000 kilodaltons and possesses a ~~non-cross-linked~~ structure composed of approximately 95% alpha-D-(1-6) linkages.
- Claim 11. **[Cancelled].**
- Claim 12. **[Currently Amended]** The aqueous gel medium of ~~claim 11~~ claim 37, wherein said alcohol is present at a concentration of from about 0.1% to about 30% (V/V).
- Claim 13. **[Original]** The aqueous gel medium of claim 12, wherein said alcohol is selected from the group consisting of: methanol, ethanol, ethylene glycol and glycerol.
- Claim 14. **[Original]** The aqueous gel medium of claim 13, wherein said alcohol is glycerol.
- Claim 15. **[Original]** The aqueous gel medium of claim 14, wherein said glycerol is present at a concentration of from about 0.1% to about 30% (V/V).
- Claim 16. **[Currently Amended]** The aqueous gel medium of ~~claim 1~~ claim 37, wherein said Tris-borate buffer is present at a concentration of from about 0.1M to about 1.0M.
- Claim 17. **[Currently Amended]** The aqueous gel medium of ~~claim 1~~ claim 37, wherein said aqueous gel medium has a pH of 8.1 ± 0.1 .

Claim 18. **[Currently Amended]** The aqueous gel medium of ~~claim 1~~ claim 37, wherein said analytes include analytes selected from the group consisting of: proteins, polypeptides, peptides and nucleic acid molecules.

Claims 19-20. **[Cancelled]**

Claim 21. **[Currently Amended]** The capillary electrophoresis system of ~~claim 19~~ claim 38, wherein said one or more reagent(s) that function to keep analytes in a reduced form include a reducing reagent.

Claim 22. **[Original]** The capillary electrophoresis system of claim 21, wherein said reducing reagent is selected from the group consisting of: 2-mercaptoethanol, dithiothreitol (DTT), dithioerythritol (DTE), and tris(2-carboxyethyl)phosphine.

Claim 23. **[Original]** The capillary electrophoresis system of claim 22, wherein said reducing reagent is dithiothreitol (DTT).

Claim 24. **[Currently Amended]** The capillary electrophoresis system of ~~claim 19~~ claim 38, wherein said one or more reagent(s) include a metal ion chelator.

Claim 25. **[Currently Amended]** The capillary electrophoresis system of claim 24, wherein said ~~reducing reagent~~ metal ion chelator is ethylenediaminetetraacetic acid (EDTA).

Claim 26. **[Currently Amended]** The capillary electrophoresis system of ~~claim 19~~ claim 38, wherein said ~~non-crosslinked~~ hydrophilic polymer is selected from the group consisting of: dextran, polyacrylamide, cellulose derivatives and polyethylene oxide.

Claim 27. **[Currently Amended]** The capillary electrophoresis system of claim 26, wherein said ~~non-crosslinked~~ hydrophilic polymer is dextran.

Claim 28. **[Currently Amended]** The capillary electrophoresis system of claim 27, wherein said dextran has a molecular weight of 2,000 kilodaltons and possesses a ~~non-cross-linked~~ structure composed of approximately 95% alpha-D-(1-6) linkages.

Claim 29. **[Cancelled]**.

Claim 30. **[Currently Amended]** The capillary electrophoresis system of ~~claim 29~~ claim 38, wherein said alcohol is present at a concentration of from about 0.1% to about 30% (V/V).

Claim 31. **[Original]** The capillary electrophoresis system of claim 30, wherein said alcohol is selected from the group consisting of: methanol, ethanol, ethylene glycol and glycerol.

Claim 32. **[Original]** The capillary electrophoresis system of claim 31, wherein said alcohol is glycerol.

Claim 33. **[Original]** The capillary electrophoresis system of claim 32, wherein said glycerol is present at a concentration of from about 0.1% to about 30% (V/V).

Claim 34. **[Currently Amended]** The capillary electrophoresis system of ~~claim 19~~ claim 38, wherein said Tris-borate buffer is present at a concentration of from about 0.1M to about 1.0M.

Claim 35. **[Currently Amended]** The capillary electrophoresis system of ~~claim 19~~ claim 38, wherein said aqueous gel medium has a pH of 8.1 ± 0.1 .

Claim 36. **[Currently Amended]** The capillary electrophoresis system of ~~claim 19~~ claim 38, wherein said analytes include analytes selected from the group consisting of: proteins, polypeptides, peptides, polysaccharides, and nucleic acid molecules.

- Claim 37. [New] An aqueous gel, said gel having a structural framework and rigidity, wherein said aqueous gel consists essentially of:
- (A) an aqueous tris(hydroxymethyl)aminomethane – borate buffer solution having a pH above 8.0 and below 8.3 and containing:
 - (1) sodium dodecyl sulfate;
 - (2) an alcohol; and
 - (3) one or more reagent(s) that function to keep analytes in a reduced form; and
 - (B) a hydrophilic polymer dissolved in said buffer solution, wherein molecules of said hydrophilic polymer are entangled to provide said gel's structural framework and rigidity.
- Claim 38. [New] A capillary electrophoresis system comprising a capillary tube containing an aqueous gel, said gel having a structural framework and rigidity, wherein said aqueous gel consists essentially of:
- (A) an aqueous tris(hydroxymethyl)aminomethane – borate buffer solution having a pH above 8.0 and below 8.3 and containing:
 - (1) sodium dodecyl sulfate;
 - (2) an alcohol; and
 - (3) one or more reagent(s) that function to keep analytes in a reduced form; and
 - (B) a hydrophilic polymer dissolved in said buffer solution, wherein molecules of said hydrophilic polymer are entangled to provide said gel's structural framework and rigidity.
- Claim 39. [New] A capillary electrophoresis system comprising a capillary tube containing an aqueous gel, said gel having a structural framework and rigidity, wherein said aqueous gel comprises:
- (A) an aqueous tris(hydroxymethyl)aminomethane – borate buffer solution having a pH above 8.0 and below 8.3 and containing:

- (1) sodium dodecyl sulfate;
 - (2) an alcohol; and
 - (3) one or more reagent(s) that function to keep analytes in a reduced form; and
- (B) a hydrophilic polymer dissolved in said buffer solution, wherein molecules of said hydrophilic polymer are entangled to provide said gel's structural framework and rigidity;
- and wherein said gel forms a dynamic coating on the inner surface of said capillary tube.

Claim 40. [New] The capillary electrophoresis system of claim 39, wherein said one or more reagent(s) that function to keep analytes in a reduced form include a reducing reagent.

Claim 41. [New] The capillary electrophoresis system of claim 40, wherein said reducing reagent is selected from the group consisting of:
2-mercaptoethanol, dithiothreitol (DTT), dithiocrythreitol (DTE), and tris(2-carboxyethyl)phosphine.

Claim 42. [New] The capillary electrophoresis system of claim 41, wherein said reducing reagent is dithiothreitol (DTT).

Claim 43. [New] The capillary electrophoresis system of claim 39, wherein said one or more reagent(s) include a metal ion chelator.

Claim 44. [New] The capillary electrophoresis system of claim 43, wherein said metal ion chelator is ethylenediaminetetraacetic acid (EDTA).

Claim 45. [New] The capillary electrophoresis system of claim 39, wherein said hydrophilic polymer is selected from the group consisting of: dextran, polyacrylamide, cellulose derivatives and polyethylene oxide.

- Claim 46. [New] The capillary electrophoresis system of claim 45, wherein said hydrophilic polymer is dextran.
- Claim 47. [New] The capillary electrophoresis system of claim 46, wherein said dextran has a molecular weight of 2,000 kilodaltons and possesses a structure composed of approximately 95% alpha-D-(1-6) linkages.
- Claim 48. [New] The capillary electrophoresis system of claim 39, wherein said alcohol is present at a concentration of from about 0.1% to about 30% (V/V).
- Claim 49. [New] The capillary electrophoresis system of claim 48, wherein said alcohol is selected from the group consisting of: methanol, ethanol, ethylene glycol and glycerol.
- Claim 50. [New] The capillary electrophoresis system of claim 49, wherein said alcohol is glycerol.
- Claim 51. [New] The capillary electrophoresis system of claim 50, wherein said glycerol is present at a concentration of from about 0.1% to about 30% (V/V).
- Claim 52. [New] The capillary electrophoresis system of claim 39, wherein said Tris-borate buffer is present at a concentration of from about 0.1M to about 1.0M.
- Claim 53. [New] The capillary electrophoresis system of claim 39, wherein said aqueous gel medium has a pH of 8.1 ± 0.1 .
- Claim 54. [New] The capillary electrophoresis system of claim 39, wherein said analytes include analytes selected from the group consisting of: proteins, polypeptides, peptides, polysaccharides, and nucleic acid molecules.